

1. IDENTIFICATION

Product Name Chlorocresol

Other Names 4-Chloro-3-methylphenol; p-Chloro-m-cresol

Uses Cosmetic uses as antimicrobial agents and preservatives; Topical pharmaceuticals, personal care, detergents and

disinfectants.

Chemical Family No Data Available

Chemical Formula C7H7CIO

Chemical Name Phenol, 4-chloro-3-methyl-

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

 Organisation
 Location
 Telephone

 Redox Ltd
 2 Swettenham Road
 +61-2-97333000

Minto NSW 2566 Australia

Redox Ltd 11 Mayo Road +64-9-2506222

Wiri Auckland 2104
New Zealand

Redox Inc. 3960 Paramount Boulevard +1-424-675-3200

Suite 107

Lakewood CA 90712

USA

Redox Chemicals Sdn Bhd Level 2, No. 8, Jalan Sapir 33/7 +60-3-5614-2111

Seksyen 33, Shah Alam Premier Industrial Park

40400 Shah Alam Sengalor, Malaysia

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

OrganisationLocationTelephonePoisons Information CentreWestmead NSW1800-251525
131126ChemcallAustralia1800-127406
+64-4-9179888ChemcallMalaysia+64-4-9179888

Chemcall New Zealand 0800-243622 +64-4-9179888

National Poisons Centre New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420

+1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Schedule 5



Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Hazard Categories Acute Toxicity (Oral) - Category 4

Acute Toxicity (Dermal) - Category 4
Serious Eye Damage/Irritation - Category 1

Sensitisation (Skin) - Category 1

Acute Hazard To The Aquatic Environment - Category 1

Pictograms







Signal Word Danger

Hazard Statements H302 + H312 Harmful if swallowed or in contact with skin.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H400 Very toxic to aquatic life.

Precautionary Statements Prevention P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dusts or mists.

P270 Do not eat, drink or smoke when using this product.

Response P302 + P352 IF ON SKIN: Wash with plenty of water/...

P312 Call a POISON CENTER or doctor if you feel unwell.

P330 Rinse mouth

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

P305 + P351 + P338 +

P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

OLIVINE/ doctor.

P363 Wash contaminated clothing before reuse.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationDangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by

Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications Health Hazards **6.1D** Substances that are acutely toxic - Harmful

	6.5B	Substances that are contact sensitisers
	8.3A	Substances that are corrosive to ocular tissue
Environmental Hazards	9.1A	Substances that are very ecotoxic in the aquatic environment
	9.2D	Substances that are slightly harmful in the soil environment
	9.3B	Substances that are ecotoxic to terrestrial vertebrates

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
4-Chloro-3-methylphenol	C7H7CIO	59-50-7	>=99 - 100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth with water. Do NOT induce vomiting. Call a Poison Centre or doctor/physician for advice.

Never give anything by mouth to an unconscious person.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue flushing until advised to stop by a

Poisons Information Centre or a doctor, or for at least 15 minutes.

Skin IF ON SKIN (or hair): Remove contaminated clothing and shoes immediately. Flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Wash contaminated clothing and shoes before reuse.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing

respiratory symptoms, get medical advice/attention. Apply resuscitation if victim is not breathing - Administer oxygen if

breathing is difficult.

Advice to Doctor Treat symptomatically. Keep victim calm and warm - Obtain immediate medical care. Ensure that attending medical

personnel are aware of the identity and nature of the product(s) involved, and take precautions to protect themselves.

Exposure

Medical Conditions Aggravated by May cause an allergic skin reaction - Remove from skin immediately!

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Combustible solid; May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.

Fire and Explosion Hazard Emits toxic fumes under fire conditions.

Hazardous Products of Fire may produce irritating, toxic and/or corrosive fumes, including Carbon monoxide, Carbon dioxide, Hydrogen chloride

Combustion

Special Fire Fighting Instructions

Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment

Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

Flash Point 118 °C [Closed cup] **Lower Explosion Limit** No Data Available

Upper Explosion Limit No Data Available

Auto Ignition Temperature 590 °C

Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through

spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Collect material; Sweep up and place it in suitable, properly labelled containers for later disposal (see SECTION 13). Avoid

raising dust.

Containment Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

Decontamination Ventilate area and wash spill site after material pickup is complete.

Environmental Precautionary

Measures

Spillages and decontamination runoff should be prevented from entering drains and watercourses.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher

ground

Personal Precautionary Measures Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection (see SECTION 8).

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection (see SECTION 8). Avoid release to the environment - Collect

spillage (see SECTION 6).

Storage Store at ambient temperature, in a dry and well-ventilated place. Protect from sunlight. Keep container tightly closed.

Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see

SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Australian Exposure Standards:

- No specific exposure standards are available.

International Exposure Standards:

- An exposure limit of 22 mg/m3 (5 ppm) time weighted average (TWA) in Canada, Denmark, Egypt, Iceland, Malaysia,

South Africa, Taiwan, Turkey and the US; and 9 mg/m3 (2 ppm) short-term exposure limit (STEL) in Sweden.

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

Personal Protection Equipment - Respiratory protection: In case of exposure to dust, wear respiratory protection. Recommended: Approved particulate

filter respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Chemical safety goggles.

- Hand protection: Wear protective gloves. Recommended: Chemical-resistant gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact.

Special Hazards Precaustions No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Crystalline powder

Odour No information available.

Colour White or almost white

pH 5.6 22.9°C

Vapour Pressure 0.06 mmHg (@ 20 °C)
Relative Vapour Density No Data Available

Boiling Point 235 °C **Melting Point** 64 - 67 °C

Freezing Point No Data Available

Solubility Freely soluble; Soluble in fats and oils - More soluble in hot than cold water

Specific Gravity 1.37

Flash Point 118 °C [Closed cup]

Auto Ignition Temp 590 °C

Evaporation RateNo Data AvailableBulk DensityNo Data AvailableCorrosion RateNo Data Available

Decomposition Temperature 200 °C **Density** 1.37 g/cm3

Specific Heat No Data Available

Molecular Weight 142.59

Net Propellant Weight No Data Available **Octanol Water Coefficient** Log Kow: 3.02 **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available No Data Available Vapour Temperature Viscosity No Data Available **Volatile Percent** No Data Available **VOC Volume** No Data Available

Additional Characteristics

No information available.

Potential for Dust Explosion

No information available.

Fast or Intensely Burning

No information available.

Characteristics

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a No information available.

Properties That May Initiate or

Contribute to Fire Intensity

Combustible solid; May burn but does not ignite readily.

Reactions That Release Gases or

Vapours

Fire

Emits toxic fumes under fire conditions. Decomposition products include Carbon monoxide, Carbon dioxide, Hydrogen chloride gas.

Release of Invisible Flammable Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information No information available.

Chemical Stability Stable.

Conditions to Avoid Avoid generating dust. Protect from light.

Materials to Avoid Incompatible/reactive with oxidising agents, Brass, Copper, Copper alloys.

Hazardous Decomposition

Emits toxic fumes under fire conditions. Decomposition products include Carbon monoxide, Carbon dioxide, Hydrogen

Products

chloride gas.

Hazardous Polymerisation

Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: Harmful if swallowed and in contact with skin.

Skin corrosion/irritation: May cause skin irritation.Eye damage/irritation: Causes serious eye damage.

- Respiratory/skin sensitisation: May cause an allergic skin reaction.

Germ cell mutagenicity: Not considered to be genotoxic.
 Carcinogenicity: Not considered to be carcinogenic.

- Reproductive toxicity: Not expected to cause reproductive or developmental toxicity.

- STOT (single exposure): Material may be irritating to mucous membranes and upper respiratory tract.

- STOT (repeated exposure): The available data suggest that chlorocresol has low repeated dose toxicity [NICNAS].

- Aspiration toxicity: No information available.

Acute

Ingestion Acute toxicity (Oral):

LD50, Rats (male): 1,830 mg/kg bw. [NICNAS].
 LD50, Mice: 600 mg/kg bw. [NICNAS].

*Remarks: Behavioural - Somnolence (general depressed activity).

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

- LC50, Fish (Oncorhynchus mykiss): 0.92 mg/l (96 h). - LC50, Fish (Pimephales promelas): 4.2 - 8.90 mg/l (96 h). - EC50, Crustacea (Daphnia magna): 4.4 - 5.30 mg/l (24 h).

- EC50, Algae/aquatic plants (Scenedesmus subspicatus): >10 mg/l (72 h).

Persistence/Degradability No information available.

Mobility No information available.

Environmental Fate Very toxic to aquatic life - Avoid release to the environment.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container in accordance with local/regional/national regulations. Contact a licensed professional

waste disposal service to dispose of this material.

Special Precautions for Land Fill Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner

and scrubber.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Chlorocresol (4-Chloro-3-methylphenol)

Class No Data Available
Subsidiary Risk(s) No Data Available

EPG 47 Low To Moderate Hazard Substances

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available

Special Provision AU01

Comments Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle

exceeding 500 kg(L) or IBCs.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Chloro-3-methylphenol)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

EPG 47 Low To Moderate Hazard Substances

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Chloro-3-methylphenol)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

EPG 47 Low To Moderate Hazard Substances

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Chloro-3-methylphenol)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

ERG 171 Substances (Low to Moderate Hazard)

 UN Number
 3077

 Hazchem
 27

 Pack Group
 III

Special Provision No Data Available

Sea Transport

IMDG Code

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Chloro-3-methylphenol)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

 UN Number
 3077

 Hazchem
 27

 Pack Group
 III

Special Provision No Data Available

EMS F-A, S-F
Marine Pollutant Yes

Air Transport

IATA DGR

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Chloro-3-methylphenol)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationDangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by

Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General InformationCHLOROCRESOLPoisons Schedule (Aust)Schedule 5

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR003455

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Determined

China (IECSC) Listed

Europe (EINECS) 200-431-6

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Listed

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Listed

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Listed

USA (TSCA) Listed

16. OTHER INFORMATION

Related Product Codes PACHME1000, PACHME1001, PACHME1002, PACHME1003, PACHME1004, PACHME1005, PACHME1006, PACHME1007,

PACHME1100, PACHME1200, PACHME1300, PACHME2000, PACHME2001, PACHME2001, PACHME2010, PACHME2011, PACH

PACHME2100

Revision 4

AICS Australian Inventory of Chemical Substances

 ${\bf atm} \ {\bf Atmosphere}$

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

COD Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight